

Table 4: Pond Water Analytical Results

Pond ID	FW Aquatic Habitat ESL <sup>(1)</sup>	Groundwater ESL <sup>(2)</sup>	Designated Level (AF 10) <sup>(3)</sup>	Pond 4A								Pond 9								Pond 11								Pond 13B							
				2/7/2014		2/27/2014		4/2/2014		2/7/2014		2/27/2014		4/2/2014		2/7/2014		2/27/2014		4/2/2014		2/27/2014		4/2/2014		2/27/2014									
				Attenuation Factor Used to Establish Designated Level								10								10								10							
Result	DL	Flag	Result	DL	Flag	Result	DL	Flag	Result	DL	Flag	Result	DL	Flag	Result	DL	Flag	Result	DL	Flag	Result	DL	Flag	Result	DL	Flag	Result	DL	Flag						
<i>Metals and Metalloids (ug/L) by EPA 200.8</i>																																			
Silver, dissolved	0.34	100	3.4	ND	0.080	R-01, U	ND	0.080	R-01, U	ND	0.080	R-01, U	ND	0.080	R-01, U	ND	0.080	R-01, U	ND	0.080	R-01, U	ND	0.080	R-01, U	ND	0.080	R-01, U	ND	0.080	R-01, U					
Silver	0.34	100	3.4	ND	0.080	R-01, U	ND	0.080	R-01, U	ND	0.080	R-01, U	ND	0.080	R-01, U	ND	0.080	R-01, U	ND	0.080	R-01, U	ND	0.080	R-01, U	ND	0.080	R-01, U	ND	0.080	R-01, U					
Arsenic, dissolved	150	10	100	0.69	0.28	R-01, J	1.4	0.28	R-01, J	1.8	0.28	R-01, J	1.5	0.28	R-01, J	0.71	0.28	R-01, J	0.36	0.28	R-01, J	2.0	0.28	R-01, J	0.73	0.28	R-01, J	0.45	0.28	R-01, J					
Arsenic	150	10	100	1.1	0.28	R-01, J	0.52	0.28	R-01, J	2.3	0.28		2.3	0.28		1.5	0.28	R-01, J	0.66	0.28	R-01, J	2.2	0.28	R-01, J	0.96	0.28	R-01, J	1.2	0.28	R-01, J	0.66	0.28	R-01, J		
Barium, dissolved	1000	1000	10000	15	0.12		16	0.12		27	0.12		58	0.12		54	0.12		41	0.12		87	0.12		40	0.12		45	0.12		44	0.12			
Barium	1000	1000	10000	16	0.12		16	0.12		28	0.12		100	0.12		150	0.12		69	0.12		110	0.12		48	0.12		57	0.12		79	0.12			
Beryllium, dissolved	2.7	4	27	ND	0.080	R-01, U	ND	0.080	R-01, U	ND	0.080	R-01, U	ND	0.080	R-01, U	ND	0.080	R-01, U	ND	0.080	R-01, U	ND	0.080	R-01, U	ND	0.080	R-01, U	ND	0.080	R-01, U					
Beryllium	2.7	4	27	ND	0.080	R-01, U	ND	0.080	R-01, U	ND	0.080	R-01, U	ND	0.080	R-01, U	ND	0.080	R-01, U	ND	0.080	R-01, U	ND	0.080	R-01, U	ND	0.080	R-01, U	ND	0.080	R-01, U					
Cadmium, dissolved	0.25	5	2.5	0.38 *	0.080	R-01, J	0.15	0.080	R-01, J	0.91 *	0.080		ND	0.080	R-01, U	0.085	0.080	R-01, J	ND	0.080	R-01, U	0.089	0.080	R-01, J	ND	0.080	R-01, U	0.089	0.080	R-01, J					
Cadmium	0.25	5	2.5	0.13	0.080	R-01, J	0.18	0.080	R-01, J	0.95	0.080		0.30	0.080	R-01, J	0.22	0.080	R-01, J	0.14	0.080	R-01, J	0.17	0.080	R-01, J	0.12	0.080	R-01, J	0.086	0.080	R-01, J					
Cobalt, dissolved	3	4.7	30	0.52	0.040		0.71	0.040		1.8	0.040		0.54	0.040		0.47	0.040		0.68	0.040		0.61	0.040		0.69	0.040		1.2	0.040		0.79	0.040			
Cobalt	3	4.7	30	0.59	0.040		0.67	0.040		1.6	0.040		1.2	0.040		3.4	0.040		1.4	0.040		1.0	0.040		1.1	0.040		1.0	0.040		2.5	0.040			
Chromium, dissolved	180	50	500	ND	0.32	R-01, U	0.74	0.32	R-01, J	0.44	0.32	R-01, J	8.4	0.32		9.5	0.32		1.7	0.32	R-01, J	5.4	0.32		8.1	0.32		4.8	0.32		ND	0.32		R-01, U	
Chromium	180	50	500	ND	0.32	R-01, U	ND	0.32	R-01, U	ND	0.32	R-01, U	12	0.32		13	0.32		4.2	0.32		8.0	0.32		8.7	0.32		5.9	0.32		4.6	0.32			
Copper, dissolved	9	1000	90	1.1	0.16	R-01, J	1.6	0.16	R-01, J	0.41	0.16	R-01, J	5.0	0.16		1.7	0.16	R-01, J	1.1	0.16	R-01, J	4.8	0.16		3.0	0.16		3.1	0.16		1.5	0.16		R-01, J	
Copper	9	1000	90	2.7	0.16		0.99	0.16	R-01, J	0.56	0.16	R-01, J	8.2	0.16		7.7	0.16		3.4	0.16		6.0	0.16		4.6	0.16		4.4	0.16		3.4	0.16			
Molybdenum, dissolved	240	78	780	430 *	0.080		450 *	0.080		550 *	0.080	QM-04a	36	0.080		42	0.080		75	0.080		38	0.080		80 *	0.080		110 *	0.080		41	0.080			
Molybdenum	240	78	780	480	0.080		450	0.080		4.1	0.080	QM-04a	40	0.080		49	0.080		74	0.080		41	0.080		81	0.080		110	0.080		43	0.080			
Nickel, dissolved	52	100	520	12	0.24		13	0.24		80 *	0.24		3.2	0.24		1.9	0.24	R-01, J	4.6	0.24		5.8	0.24		6.6	0.24		1.2	0.24		R-01, J				
Nickel	52	100	520	17	0.24		12	0.24		73	0.24		12	0.24		15	0.24		5.2	0.24		12	0.24		7.4	0.24		8.4	0.24		7.4	0.24			
Lead, dissolved	2.5	15	25	0.18	0.080	R-01, J	ND	0.080	R-01, U	ND	0.080	R-01, U	ND	0.080	R-01, U	ND	0.080	R-01, U	ND	0.080	R-01, U	ND	0.080	R-01, U	ND	0.080	R-01, U	ND	0.080	R-01, U					
Lead	2.5	15	25	0.12	0.080	R-01, J	ND	0.080	R-01, U	ND	0.080	R-01, U	ND	0.080	R-0																				

**Table 4: Pond Water Analytical Results**

### Legend:

\* Exceeds one or more of the criteria (Designated Level, GW ESI, or Aquatic ESI).

## Notes:

Notes:

AI = Attenuation Index  
DL = Detection Limit

DL = Detection Limit

L = Detected at concentration between reporting limit and detection limit

ND = Not detected above DL

ND = Not detected above DL.

R-01 = Reporting

**U = Not Detected**  
Aquatic habitat criteria considered at the request of the RWQCB, although com-

Total concentrations are for informational purposes only and are not compared with ESLs.

Total concentrations are for informational purposes only and are not compared with ESLs, except selenium.  
ESLs are expressed as dissolved concentrations, except for selenium.

<sup>(1)</sup> FW Aquatic Habitat ESLs were taken from Table F-4a Summary of Statewide Goals - Lowest Freshwater Aquatics Habitat Goal column in the ESL Workbook ([http://www.waterboards.ca.gov/sanfranciscobay/water\\_issues/programs/esl/](http://www.waterboards.ca.gov/sanfranciscobay/water_issues/programs/esl/)).

(2) Groundwater ESLs were taken from Table F-3 Summary of Drinking Water Screening Levels in the ESI Workbook  
[http://www.waterboards.ca.gov/sanfranciscobay/water\\_issues/programs/esl.shtml](http://www.waterboards.ca.gov/sanfranciscobay/water_issues/programs/esl.shtml)

<sup>(3)</sup> Projected to be adopted by the end of 2010, as outlined in Section 3.4 of the study.

**Table 4: Pond Water Analytical Results**

Pond ID	FW Aquatic Habitat ESL <sup>(1)</sup>	Groundwater ESL <sup>(2)</sup>	Designated Level (AF 10) <sup>(3)</sup>	Pond 30								Pond 31B															
				2/7/2014				2/27/2014				4/2/2014				2/11/2014				2/27/2014				4/2/2014			
				Attenuation Factor Used to Establish Designated Level								100								100							
<i>Metals and Metalloids (ug/L) by EPA 200.8</i>				Result	DL	Flag	Result	DL	Flag	Result	DL	Flag	Result	DL	Flag	Result	DL	Flag	Result	DL	Flag	Result	DL	Flag			
Silver, dissolved	0.34	100	3.4	ND	0.080	R-01, U	ND	0.080	R-01, U	ND	0.080	R-01, U	ND	0.080	R-01, U	ND	0.080	R-01, U	ND	0.080	R-01, U	ND	0.080	R-01, U			
Silver	0.34	100	3.4	ND	0.080	R-01, U	ND	0.080	R-01, U	ND	0.080	R-01, U	ND	0.080	R-01, U	ND	0.080	R-01, U	ND	0.080	R-01, U	ND	0.080	R-01, U			
Arsenic, dissolved	150	10	100	0.70	0.28	R-01, J	1.4	0.28	R-01, J	0.72	0.28	R-01, J	ND	0.28	R-01, U	1.2	0.28	R-01, J	0.76	0.28	R-01, J	ND	0.28	R-01, J			
Arsenic	150	10	100	ND	0.28	R-01, U	1.6	0.28	R-01, J	1.3	0.28	R-01, J	0.35	0.28	J	0.52	0.28	R-01, J	1.2	0.28	R-01, J	ND	0.28	R-01, J			
Barium, dissolved	1000	1000	10000	14	0.12		36	0.12		30	0.12		26	0.12		38	0.12		29	0.12							
Barium	1000	1000	10000	26	0.12		49	0.12		42	0.12		31	0.12		62	0.12		40	0.12							
Beryllium, dissolved	2.7	4	27	ND	0.080	R-01, U	ND	0.080	R-01, U	ND	0.080	R-01, U	ND	0.080	R-01, U	ND	0.080	R-01, U	ND	0.080	R-01, U	ND	0.080	R-01, U			
Beryllium	2.7	4	27	ND	0.080	R-01, U	ND	0.080	R-01, U	ND	0.080	R-01, U	ND	0.080	R-01, U	ND	0.080	R-01, U	ND	0.080	R-01, U	ND	0.080	R-01, U			
Cadmium, dissolved	0.25	5	2.5	ND	0.080	R-01, U	ND	0.080	R-01, U	ND	0.080	R-01, U	0.081	0.080	R-01, J	ND	0.080	R-01, U	ND	0.080	R-01, U	ND	0.080	R-01, U			
Cadmium	0.25	5	2.5	ND	0.080	R-01, U	ND	0.080	R-01, U	0.089	0.080	R-01, J	0.097	0.080	R-01, J	0.13	0.080	R-01, J	0.091	0.080	R-01, J	ND	0.080	R-01, J			
Cobalt, dissolved	3	4.7	30	0.45	0.040		0.41	0.040		0.67	0.040		0.47	0.040		0.43	0.040		0.60	0.040							
Cobalt	3	4.7	30	1.0	0.040		1.5	0.040		1.4	0.040		0.82	0.040		2.2	0.040		1.5	0.040							
Chromium, dissolved	180	50	500	1.9	0.32	R-01, J	2.0	0.32		2.5	0.32		5.2	0.32		4.6	0.32		4.4	0.32							
Chromium	180	50	500	4.1	0.32		5.2	0.32		4.0	0.32		6.0	0.32		8.5	0.32		5.6	0.32							
Copper, dissolved	9	1000	90	1.2	0.16	R-01, J	2.9	0.16		1.3	0.16	R-01, J	1.0	0.16	R-01, J	1.9	0.16	R-01, J	1.9	0.16	R-01, J	1.9	0.16	R-01, J			
Copper	9	1000	90	3.5	0.16		4.0	0.16		2.2	0.16		1.1	0.16	R-01, J	3.5	0.16		2.8	0.16							
Molybdenum, dissolved	240	78	780	62	0.080		39	0.080		70	0.080		170 *	0.080		130 *	0.080		110 *	0.080							
Molybdenum	240	78	780	70	0.080		41	0.080		69	0.080		190	0.080		140	0.080		110	0.080							
Nickel, dissolved	52	100	520	8.7	0.24		1.3	0.24	R-01, J	1.4	0.24	R-01, J	1.5	0.24	R-01, J	0.70	0.24	R-01, J	1.1	0.24	R-01, J	ND	0.24	R-01, J			
Nickel	52	100	520	11	0.24		5.3	0.24		3.6	0.24		8.3	0.24		6.8	0.24		3.6	0.24							
Lead, dissolved	2.5	15	25	ND	0.080	R-01, U	ND	0.080	R-01, U	ND	0.080	R-01, U	ND	0.080	R-01, U	ND	0.080	R-01, U	ND	0.080	R-01, U	ND	0.080	R-01, U			
Lead	2.5	15	25	0.13	0.080	R-01, J	0.18	0.080	R-01, J	0.086	0.080	R-01, J	ND	0.080	R-01, U	0.23	0.080	R-01, J	0.12	0.080	R-01, J	ND	0.080	R-01, J			
Antimony, dissolved	30	6	60	0.56	0.080	R-01, J	0.49	0.080	R-01, J	0.78	0.080	R-01, J	1.1	0.080	R-01, J	1.1	0.080	R-01, J	1.3	0.080	R-01, J	ND	0.080	R-01, J			
Antimony	30	6	60	0.59	0.080	R-01, J	0.50	0.080	R-01, J	0.80	0.080	R-01, J	1.1	0.080	R-01, J	1.1	0.080	R-01, J	1.2	0.080	R-01, J	ND	0.080	R-01, J			
Selenium, dissolved	5	50	50	29 *	0.28		18 *	0.28		33 *	0.28		36 *	0.28		30 *	0.28		24 *	0.28							
Selenium	5	50	50	29	0.28		18	0.28		32	0.28		35	0.28		29	0.28		23	0.28							
Thallium, dissolved	20	2	20	ND	0.080	R-01, U	ND	0.080	R-01, U	ND	0.080	R-01, U	ND	0.080	R-01, U	ND	0.080	R-01, U	ND	0.080	R-01, U	ND	0.080	R-01, U			
Thallium	20	2	20	ND	0.080	R-01, U	ND	0.080	R-01, U	ND	0.080	R-01, U	ND	0.080	R-01, U	ND	0.080	R-01, U	ND	0.080	R-01, U	ND	0.080	R-01, U			
Vanadium, dissolved	19	50	190	3.8	1.2	R-01, J	6.7	1.2		5.7	1.2		16	1.2		25 *	1.2		16	1.2							
Vanadium	19	50	190	4.7	1.2		8.7	1.2		8.3	1.2		17	1.2		29	1.2		18	1.2							
Zinc, dissolved	120	5000	1200	3.6	2.0	R-01, J	3.5	2.0	R-01, J	8.5	2.0	R-01, J	3.2	2.0	R-01, J	2.6	2.0	R-01, J	4.7	2.0	R-01, J						